LEBANON

- War damaged infrastructure
- Strained public health systems

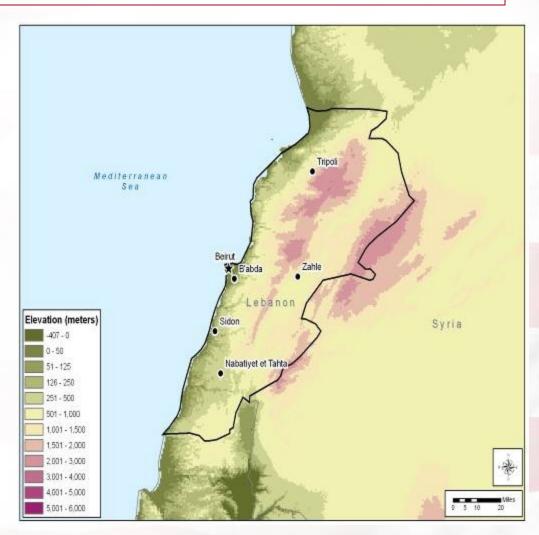




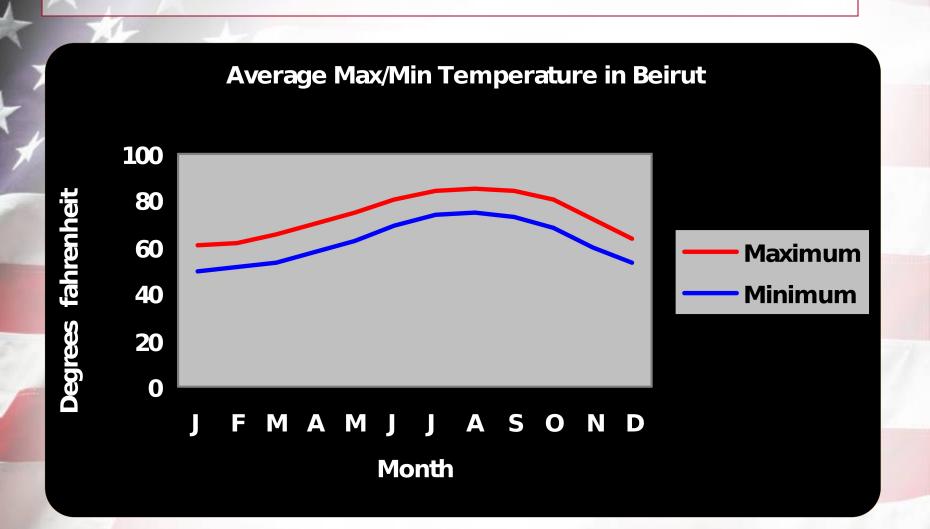
Where in the world is

Physical Environment

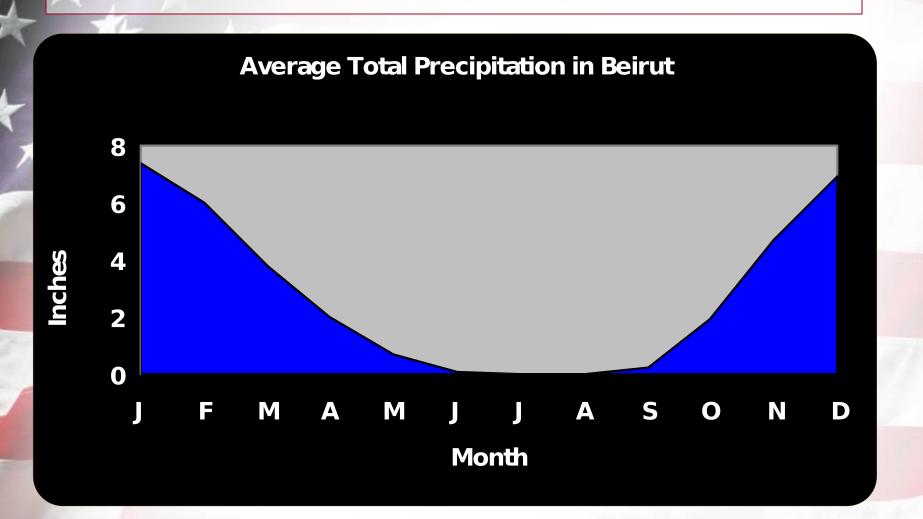
- Topography
 - About twice the size of Delaware
 - 4 geographic regions
 - Coastal plain, Mountains, Agriculture, Antimountain
- Climate
 - Varies by region
 - Hot summers along the coast, cold in the mountains



Physical Environment



Physical Environment



Environmental Health Risk

- Greatest short term risks associated with ingestion of contaminated food/water; extreme heat/cold; high altitude
- Greatest long term risks associated with exposure to heavy metals



Environmental Issues

- Air Contamination
 - Short term risks
 - Coughing and wheezing
 - Especially among people with asthma
 - Lead levels high in Beirut
 - Decreasing with phase out of leaded gas
 - Slightly about US standard in 2001
 - Concentrations of respirable particulate matter smaller than 10 micrometers (PM-10) are high

Environmental Issues Cont.

- Soil Contamination
 - Low risk to human health
 - Localized



- Water Contamination
 - Uncontrolled discharges
 - Overfertilization leading to high levels of nitrate

Infectious Disease Risk Definitions

HIGH	INTERMEDIATE	LOW
The main force health protection emphasis should be on these diseases, which are the most likely to degrade operations by affecting a large percentage of personnel, or by causing severe	These diseases also warrant force protection emphasis. They are less likely to degrade operations because they generally affect smaller numbers of personnel, or cause mild symptoms.	Other militarily significant diseases that are likely to have a minimal impact on operational readiness. These diseases are not generally discussed in the Medical Threat
illness in a smaller percentage.		Presentations.

Infectious Disease Risk

• INTERMEDIATE RISK for infectious diseases

 Inadequate force health protection (FHP) measures, will adversely impact mission effectiveness

Infectious Diseases

- Foodborne and Waterborne Diseases
 - HIGH RISK = Diarrhea bacterial, hepatitis A,
 - INTERMEDIATE RISK = diarrhea protozoal, typhoid, paratyphoid
- FHP Priorities
 - Deploy appropriate PM personnel and equipment
 - Consume food, water, ice only from US-approved sources
 - Operate food preparation facilities in accordance with Army doctrine
 - Ensure proper hand washing facilities near all latrines and dining facilities and enforce

- Vector-borne Diseases
 - INTERMEDIATE RISK = Leishmaniasis, Rickettsioses (tickborne), Sand fly fever, Sindbis virus, West Nile fever

- FHP Priorities
 - Use DEET on all exposed skin
 - Treat field uniforms with permethrin
 - Use bed nets in field conditions, treat with permethrin

- Animal-contact Diseases
 - INTERMEDIATE RISK = Anthrax, Q-fever, Rabies
- FHP Priorities
 - Avoid animal contact (alive or dead), especially
 if an animal exhibits strange
 - behavior
 - No mascots
 - Report all animal bites and scratches
 - Do not keep food in living areas
 - Dispose of trash properly

- Sexually Transmitted Diseases
 - INTERMEDIATE RISK = gonorrhea/chlamydia, HIV/AIDS, Hepatitis B
- FHP Priorities
 - Avoid sexual contact
 - Use latex condoms if sexually active



- Water-contact Diseases
 - INTERMEDIATE RISK = leptospirosis
- FHP Priorities
 - avoid unnecessary contact with lakes, rivers, streams, and other surface water

There will not be a sign like

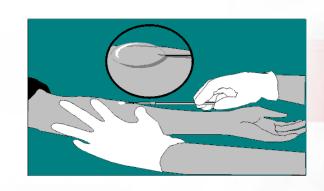
WARNING!

LEPTOSPIROSIS HEALTH HAZARD

FRESH WATER STREAMS AND MUD POSSIBLY POLLUTED WITH BACTERIA

> SWIM, BOAT, OR HIKE AT YOUR OWN RISK

- Respiratory Diseases
 - LOW RISK = tuberculosis



FHP Priorities

- 72 sqft/person and head-to-toe sleeping arrangement
- Cough or sneeze into your upper sleeve instead of your hands
- Wash hands at every opportunity
- Avoid close contact with local population

Hazardous Animals & Plants

Animals

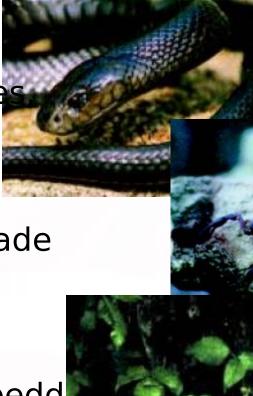
 Rabid dogs, snakes, centipedes scorpions, spiders

Plants

Mexican Poppy, Fetid Nightshade

FHP Priorities

- Do not handle animals
- Shake out boots, clothing, & bedd
- Do not touch, chew, eat, or burn unfamiliar plants



SUMMARY

- Physical Environment
- Infectious Diseases = INTERMEDIATE RISK
- Hazardous Animals and Plants
- FHP measures are simple and
 - Use and Enforce
 - Will conserve the fighting stren

